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**BREAST CANCER STUDY
1997 PATIENT SURVEY**

**SUMMARY OF DATA
EXTRACTED FROM
PATIENTS' MEDICAL RECORDS**

RP 00-002

MAY 2000

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UNITED STATES ARMY
MEDICAL DEPARTMENT CENTER AND SCHOOL
FORT SAM HOUSTON, TEXAS 78234-6125

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INTRODUCTION

In 1997, the AMEDD Studies and Analysis Branch in the Center for Healthcare Education and Studies (CHES), US Army Medical Department Center and School, began a study entitled "Enhancing the DOD Automated Central Tumor Registry (ACTUR) Data to Develop More Precise Measures for Survival Analysis and Epidemiological Studies of Breast Cancer Patients." The first phase of the investigation was a mail survey of all breast cancer patients registered in the Brooke Army Medical Center (BAMC) Tumor Registry who met the following criteria: the patient was a female diagnosed and/or treated for breast cancer at BAMC whose cancer was initially diagnosed in the period 1987-1997. Details of the survey methodology and initial findings were summarized in a previous report.¹ The second phase of the study was the extraction and analysis of data from medical records of the surveyed patients and is the subject of the current report. Later phases of the study, based on the merger of the survey and medical data with records from the ACTUR database, will be presented in future reports.

METHOD

As discussed in a previous report,¹ a study population representing 96% of those surveyed, was retained for analysis. The study group (n=907) consisted of white, African American, and Hispanic women diagnosed and/or treated for breast cancer at BAMC, whose cancer was initially diagnosed in the period 1987-1997. At the time of the survey, 71% of the women were living (n=644), 29% were dead (n=258). By race, 714 were white (516 living, 198 dead), 121 were African American (77 living, 44 dead), and 67 were Hispanic (51 living, 16 dead).

A data collection form for recording the medical data on each of the surveyed patients was designed and evaluated. At the time the form was designed and printed, it was envisioned that most, if not all, of the data would be obtained from laboratory records and the form was given the title "Laboratory Collection Sheet" (See Appendix 1). However, once work was underway, it was found that the designated information was frequently not in the lab reports, but in other medical records. Therefore, hereafter any reference to the form or the extracted data will use the broader conotation "medical," not "lab."

The medical data forms were labeled with the patients' names and survey id numbers prior to fill-in of data. All forms were then completed by Certified Tumor Registrars (CTRs) from screening of BAMC medical registry records. Data collected included:

- a. Estrogen receptor assay--whether positive, negative or unknown.
- b. Progesterone receptor assay--whether positive, negative or unknown.
- c. Cell type to include infiltrating duct (or intraductal), ductal, inflammatory, Paget's disease, lobular, adenocarcinoma, medullary, tubular, papillary, cystosarcoma (phyllodes tumor), mucinous, cribriform lymphoma, spindle cell or unknown.
- d. Tumor size in centimeters (for staging of the cancer using the TNM system required by accrediting agencies--this is the T portion).

- e. Nodal involvement--how many nodes were examined and of that number, how many nodes were positive (this is the N portion of the TNM system).
- f. Metastatic stage (had the cancer spread to adjoining organs or to distant organs).
- g. Stage (final or M category of the TNM system).
- h. Adjuvant therapy administered to include tamoxifen, CMF, FAC, bone marrow transplant + harvest, Taxol, GCSF, 5-FU, adriamycin, cytoxan, methotrexate, none or unknown.
- i. Radiation therapy administered to include palliative, curative, none or unknown.
- j. Type of surgery to include lumpectomy, modified radical, implants, none, or unknown.
- k. Breast location of the cancer, to include right, left, bilateral or unknown.
- l. Previous primary--yes, no or unknown. (Note: If a woman had two occurrences of primary breast cancer during the study period, information on both incidences was extracted, and one record was created for each occurrence.)
- m. Transfer of patient from another installation (using the American Hospital number).

After filling-in of the medical data forms was completed, Branch staff coded all data in preparation for digitization. Records for patients with only one occurrence of primary breast cancer during the study period, were coded "primary 1." For patients with two occurrences, the record with the earlier diagnosis date was coded as "primary 1," and the other record as "primary 2." Data entry and verification of the records were performed by a local vendor. The vendor provided a diskette containing a text file of the data plus an explanation of the file layout. After receipt of the diskette, Branch staff initially read and reviewed the text file on a PC for any problems noted by the data entry vendor and to check the general layout of the file. The text file was then transferred to a Unix workstation for conversion to a SAS data file (lab.ssd01). SAS formats and labels were created and stored for the medical data variables and preliminary summary analyses run to obtain initial information. A racial variable for the women in the study population was obtained from the ACTUR database and merged with the medical data file (output SAS data set: newmed1.ssd01, 907 observations, 42 variables). Frequency distributions were generated for each of the variables (except identification variables such as patient name and survey id number), and the effect of race examined using Chi-square analysis. Appendix 2 is an alphabetical listing of all variables with their SAS attributes from . Appendix 3 contains the SAS formats which define the coded, numeric values of the categorical variables.

RESULTS AND DISCUSSION

Notes: Results are presented for "primary 1" records only. All percentages shown in the tables are column percentages (e.g., in Table 1, 44.09% of whites had breast cancer only in the right breast). Results are presented for all Chi-square tests that were performed, even if the test may have been invalid. A superscript letter (a,b,c,d,e,f) next to a Chi-square probability identifies the tests which may be invalid; the letter indicates the percentage of cells in the cross-tabulation having expected counts less than 5: a = 21-25%, b = 26-35%, c = 36-45%, d = 46-55%, e = 56-65%, f >65%.

Breast Location and TNM Staging Components (Table 1)

Breast location of the cancer did not differ by race. About 91% of all women had cancer in only one breast, with right and left occurrences about equal. The remaining 9% of women either had cancer in both breasts or no indication of location was found in the medical records. Concerning the three factors of TNM Staging (tumor size, node category, and metastasis status), only tumor size varied significantly by race. Whites had the largest proportion of T1 cancers (43%) and the smallest proportion of T4 cancers (5%). African Americans had the least Tis (5%) and the most T2, while Hispanics suffered the least T3 cancers.

Table 1. Breast location and TNM staging components by race.

| Variable | White No. (%) | African American No. (%) | Hispanic No. (%) | Total No. (%) | P* > X ² |
|--------------------------------|------------------|-----------------------------|---------------------|------------------|---------------------|
| Breast Location | | | | | 0.205 |
| Right | 317 (44.09) | 56 (46.28) | 33 (49.25) | 406 (44.76) | |
| Left | 329 (45.76) | 55 (45.45) | 31 (46.27) | 415 (45.76) | |
| Bilateral | 38 (5.29) | 1 (0.83) | 1 (1.49) | 40 (4.41) | |
| Unknown | 35 (4.87) | 9 (7.44) | 2 (2.99) | 46 (5.07) | |
| Tumor Size [†] | | | | | 0.003 |
| Tis | 99 (13.77) | 6 (4.96) | 8 (11.94) | 113 (12.46) | |
| T1 | 307 (42.70) | 41 (33.88) | 23 (34.33) | 371 (40.90) | |
| T2 | 187 (26.01) | 44 (36.36) | 21 (31.34) | 252 (27.78) | |
| T3 | 47 (6.54) | 8 (6.61) | 2 (2.99) | 57 (6.28) | |
| T4 | 37 (5.15) | 14 (11.57) | 9 (13.43) | 60 (6.62) | |
| Unknown | 42 (5.84) | 8 (6.61) | 4 (5.97) | 54 (5.95) | |
| Node Category [†] | | | | | 0.198 ^d |
| N0 | 439 (61.06) | 60 (49.59) | 33 (49.25) | 532 (58.65) | |
| N1 | 245 (34.08) | 56 (46.28) | 31 (46.27) | 332 (36.60) | |
| N2 | 5 (0.70) | 0 (0.00) | 0 (0.00) | 5 (0.55) | |
| N3 | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Unknown | 29 (4.03) | 5 (4.13) | 3 (4.48) | 37 (4.08) | |
| Metastasis Status [†] | | | | | 0.977 ^a |
| M0 | 649 (90.26) | 110 (90.91) | 59 (88.06) | 818 (90.19) | |
| M1 | 36 (5.01) | 6 (4.96) | 4 (5.97) | 46 (5.07) | |
| Unknown | 34 (4.73) | 5 (4.13) | 4 (5.97) | 43 (4.74) | |

*A superscript letter (a,b,c,d,e,f) next to a Chi-square probability identifies the tests which may be invalid; the letter indicates the percentage of cells in the cross-tabulation having expected counts less than 5: a = 21-25%, b = 26-35%, c = 36-45%, d = 46-55%, e = 56-65%, f > 65%.

[†]TNM staging from *American Cancer Society textbook of clinical oncology*, 2nd ed. Murphy GP, Lawrence W, Jr, Lenhard RE, Jr, editors. Atlanta: The American Cancer Society, 1995.

Pathologic Stage, Tumor Cell Type, and Estrogen/Progesterone Receptor Status (Table 2)

Pathologic stage varied significantly with race, with more whites having stages 0 and I, more African Americans and Hispanics having stage II, more African Americans having stage III and more Hispanics having stage IV. Tumor cell type showed no significant differences by race, but the Chi-square test was probably not valid due to the large number of small cell counts.

However, note that in the predominant category, infiltrating duct, African Americans have a 10% higher occurrence rate compared to whites and Hispanics (80% vs 71% and 70%). Estrogen receptor status showed a highly significant difference by race. More than 50% of white and Hispanic women had positive assays compared to only 37% of African American women. Progesterone receptor status did not vary with race; overall, about 40% of women had positive assays and 28% had negative assays.

Table 2. Pathologic stage, tumor cell type, and estrogen/progesterone receptor status by race.

| Variable | White No. (%) | African American No. (%) | Hispanic No. (%) | Total No. (%) | P* > χ^2 |
|------------------------------|------------------|-----------------------------|---------------------|------------------|--------------------|
| Pathologic Stage | | | | | 0.048 |
| 0 | 86 (11.96) | 5 (4.13) | 7 (10.45) | 98 (10.80) | |
| I | 234 (32.55) | 32 (26.45) | 15 (22.39) | 281 (30.98) | |
| II | 254 (35.33) | 48 (39.67) | 27 (40.30) | 329 (36.27) | |
| III | 73 (10.15) | 23 (19.01) | 9 (13.43) | 105 (11.58) | |
| IV | 49 (6.82) | 8 (6.61) | 7 (10.45) | 64 (7.06) | |
| Unknown | 23 (3.20) | 5 (4.13) | 2 (2.99) | 30 (3.31) | |
| Tumor Cell Type | | | | | 0.459 ^f |
| Infiltrating duct | 508 (70.65) | 97 (80.17) | 47 (70.15) | 652 (71.89) | |
| Ductal | 65 (9.04) | 4 (3.31) | 6 (8.96) | 75 (8.27) | |
| Inflammatory | 10 (1.39) | 2 (1.65) | 3 (4.48) | 15 (1.65) | |
| Paget's disease | 2 (0.28) | 0 (0.00) | 0 (0.00) | 2 (0.22) | |
| Lobular | 51 (7.09) | 4 (3.31) | 2 (2.99) | 57 (6.28) | |
| Adenocarcinoma | 25 (3.48) | 3 (2.48) | 5 (7.46) | 33 (3.64) | |
| Medullary | 7 (0.97) | 4 (3.31) | 0 (0.00) | 11 (1.21) | |
| Tubular | 10 (1.39) | 0 (0.00) | 0 (0.00) | 10 (1.10) | |
| Papillary | 18 (2.50) | 4 (3.31) | 3 (4.48) | 25 (2.76) | |
| Cystosarcoma | 3 (0.42) | 1 (0.83) | 0 (0.00) | 4 (0.44) | |
| Cribiform | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Lymphoma | 4 (0.56) | 0 (0.00) | 0 (0.00) | 4 (0.44) | |
| Spindle cell | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Unknown | 13 (1.81) | 2 (1.65) | 1 (1.49) | 16 (1.76) | |
| Missing | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Estrogen Receptor Status | | | | | 0.001 |
| Negative | 128 (17.80) | 42 (34.71) | 14 (20.90) | 184 (20.29) | |
| Positive | 369 (51.32) | 45 (37.19) | 37 (55.22) | 451 (49.72) | |
| Unknown | 222 (30.88) | 34 (28.10) | 16 (23.88) | 272 (29.99) | |
| Progesterone Receptor Status | | | | | 0.134 ^a |
| Negative | 187 (26.01) | 46 (38.02) | 24 (35.82) | 257 (28.34) | |
| Positive | 294 (40.89) | 40 (33.06) | 25 (37.31) | 359 (39.58) | |
| Unknown | 237 (32.96) | 35 (28.93) | 18 (26.87) | 290 (31.97) | |
| Missing | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |

* A superscript letter (a,b,c,d,e,f) next to a Chi-square probability identifies the tests which may be invalid; the letter indicates the percentage of cells in the cross-tabulation having expected counts less than 5: a = 21-25%, b = 26-35%, c = 36-45%, d = 46-55%, e = 56-65%, f > 65%.

Treatments (Surgery, Radiation Therapy, Adjuvant Therapies) (Tables 3 and 4)

Surgery across the three racial groups was equivalent under the military health care system. Overall, approximately 63% of women had modified radical mastectomies, 22% had lumpectomies, 8% had implants, and only 3% had no surgery. Even though radiation therapy was found to vary significantly with race, a similar pattern in curative versus pallative treatment was observed, with 3-4 times as many women having had curative compared to pallative radiation therapy.

Table 3. Surgery and radiation therapy by race.

| Variable | White No. (%) | African American No. (%) | Hispanic No. (%) | Total No. (%) | P* > χ^2 |
|-------------------|------------------|-----------------------------|---------------------|------------------|--------------------|
| Type of Surgery | | | | | 0.932 ^b |
| Lumpectomy | 157 (21.84) | 29 (23.97) | 14 (20.90) | 200 (22.05) | |
| Mod radical | 458 (63.70) | 76 (62.81) | 42 (62.69) | 576 (63.51) | |
| Implants | 59 (8.21) | 6 (4.96) | 6 (8.96) | 71 (7.83) | |
| None | 20 (2.78) | 5 (4.13) | 3 (4.48) | 28 (3.09) | |
| Unknown | 25 (3.48) | 5 (4.13) | 2 (2.99) | 32 (3.53) | |
| Radiation Therapy | | | | | 0.028 |
| Pallative | 60 (8.34) | 13 (10.74) | 7 (10.45) | 80 (8.82) | |
| Curative | 228 (31.71) | 40 (33.06) | 18 (26.87) | 286 (31.53) | |
| None | 369 (51.32) | 49 (40.50) | 29 (43.28) | 447 (49.28) | |
| Unknown | 58 (8.07) | 19 (15.70) | 12 (17.91) | 89 (9.81) | |
| Missing | 4 (0.56) | 0 (0.00) | 1 (1.49) | 5 (0.55) | |

* A superscript letter (a,b,c,d,e,f) next to a Chi-square probability identifies the tests which may be invalid; the letter indicates the percentage of cells in the cross-tabulation having expected counts less than 5: a = 21-25%, b = 26-35%, c = 36-45%, d = 46-55%, e = 56-65%, f > 65%.

There was noticeable variation in the adjuvant therapies for women in the three racial groups. Approximately 29% of white women received no adjuvant therapy compared with 18% of Hispanics and 13% of African Americans. Overall and by race, the most common adjuvant therapies for women in the military health care system were (a) tamoxifen; (b) fluorouracil, doxorubicin (adriamycin), and cyclophosphamide regimen (FAC); and (c) cyclophosphamide, methotrexate, and fluorouracil regimen (CMF). However, the distribution of these therapies varied by race. For white women, the therapies in order of use (Admin 1) were Tamoxifen (26%), FAC (17%), and (CMF) (13%); for African Americans, FAC (27%), CMF (20%), and Tamoxifen (17%); and for Hispanics, FAC (25%), Tamoxifen (19%), and CMF (16%). Two adjuvant therapies were administered to 31% of whites compared to 46% of African Americans and 48% of Hispanics. If a second adjuvant therapy was given, Tamoxifen was most common for whites and Hispanics compared to Cytoxan for African Americans. Three adjuvant therapies were administered to 16.1% of whites, 19% of Hispanics, and 20% of African Americans. Less than 8% of women in each racial group had more than three adjuvant therapies.

Table 4. Adjuvant therapy by race.

| Variable* | White No. (%) | African American No. (%) | Hispanic No. (%) | Total No. (%) | P* > X ² |
|--------------------------|------------------|-----------------------------|---------------------|------------------|---------------------|
| Adjuvant Therapy Admin 1 | | | | | 0.001 ^d |
| Tamoxifen | 185 (25.73) | 20 (16.53) | 13 (19.40) | 218 (24.04) | |
| CMF | 95 (13.21) | 24 (19.83) | 11 (16.42) | 130 (14.33) | |
| FAC | 124 (17.25) | 33 (27.27) | 17 (25.37) | 174 (19.18) | |
| BMT + harvest | 12 (1.67) | 0 (0.00) | 1 (1.49) | 13 (1.43) | |
| Taxol | 9 (1.25) | 1 (0.83) | 0 (0.00) | 10 (1.10) | |
| GCSF | 3 (0.42) | 1 (0.83) | 0 (0.00) | 4 (0.44) | |
| 5 FU | 5 (0.70) | 0 (0.00) | 0 (0.00) | 5 (0.55) | |
| Adriamycin | 34 (4.73) | 18 (14.88) | 9 (13.43) | 61 (6.73) | |
| Cytosan | 13 (1.81) | 3 (2.48) | 1 (1.49) | 17 (1.87) | |
| Methotrexate | 0 (0.00) | 1 (0.83) | 0 (0.00) | 1 (0.11) | |
| None | 209 (29.07) | 16 (13.22) | 12 (17.91) | 237 (26.13) | |
| Unknown | 30 (4.17) | 4 (3.31) | 3 (4.48) | 37 (4.08) | |
| Adjuvant Therapy Admin 2 | | | | | 0.007 ^e |
| Tamoxifen | 78 (10.85) | 10 (8.26) | 11 (16.42) | 99 (10.92) | |
| CMF | 18 (2.50) | 2 (1.65) | 2 (2.99) | 22 (2.43) | |
| FAC | 26 (3.62) | 10 (8.26) | 4 (5.97) | 40 (4.41) | |
| BMT + harvest | 13 (1.81) | 3 (2.48) | 1 (1.49) | 17 (1.87) | |
| Taxol | 25 (3.48) | 7 (5.79) | 4 (5.97) | 36 (3.97) | |
| GCSF | 10 (1.39) | 1 (0.83) | 2 (2.99) | 13 (1.43) | |
| 5 FU | 3 (0.42) | 1 (0.83) | 0 (0.00) | 4 (0.44) | |
| Adriamycin | 12 (1.67) | 4 (3.31) | 0 (0.00) | 16 (1.76) | |
| Cytosan | 34 (4.73) | 18 (14.88) | 8 (11.94) | 60 (6.62) | |
| Methotrexate | 2 (0.28) | 0 (0.00) | 0 (0.00) | 2 (0.22) | |
| None | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Missing | 497 (69.12) | 65 (53.72) | 35 (52.24) | 597 (65.82) | |
| Adjuvant Therapy Admin 3 | | | | | 0.001 ^e |
| Tamoxifen | 28 (3.89) | 10 (8.26) | 4 (5.97) | 42 (4.63) | |
| CMF | 3 (0.42) | 0 (0.00) | 0 (0.00) | 3 (0.33) | |
| FAC | 12 (1.67) | 3 (2.48) | 0 (0.00) | 15 (1.65) | |
| BMT + harvest | 28 (3.89) | 2 (1.65) | 7 (10.45) | 37 (4.08) | |
| Taxol | 27 (3.76) | 1 (0.83) | 1 (1.49) | 29 (3.20) | |
| GCSF | 3 (0.42) | 5 (4.13) | 0 (0.00) | 8 (0.88) | |
| 5 FU | | | | | |
| Adriamycin | 1 (0.14) | 2 (1.65) | 1 (1.49) | 4 (0.44) | |
| Cytosan | 2 (0.28) | 0 (0.00) | 0 (0.00) | 2 (0.22) | |
| Methotrexate | 12 (1.67) | 1 (0.83) | 0 (0.00) | 13 (1.43) | |
| None | 2 (0.28) | 0 (0.00) | 0 (0.00) | 2 (0.22) | |
| Missing | 601 (83.59) | 97 (80.17) | 54 (80.60) | 752 (82.91) | |

*CMF= cyclophosphamide, methotrexate, fluorouracil regimen; FAC= fluorouracil, doxorubicin (adriamycin), cyclophosphamide regimen; BMT=bone marrow transplant; GCSF= granulocyte colony-stimulating factor (filgrastim); 5 FU= 5-fluorouracil.

A superscript letter (a,b,c,d,e,f) next to a Chi-square probability identifies the tests which may be invalid; the letter indicates the percentage of cells in the cross-tabulation having expected counts less than 5: a = 21-25%, b = 26-35%, c = 36-45%, d = 46-55%, e = 56-65%, f >65%.

Table 4. Adjuvant therapy by race. (cont.)

| Variable | White No. (%) | African American No. (%) | Hispanic No. (%) | Total No. (%) | P>X ² |
|--------------------------|------------------|-----------------------------|---------------------|------------------|--------------------|
| Adjuvant Therapy Admin 4 | | | | | 0.175 ^a |
| Tamoxifen | 12 (1.67) | 1 (0.83) | 2 (2.99) | 15 (1.65) | |
| CMF | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| FAC | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| BMT + harvest | 22 (3.06) | 2 (1.65) | 1 (1.49) | 25 (2.76) | |
| Taxol | 6 (0.83) | 2 (1.65) | 0 (0.00) | 8 (0.88) | |
| GCSF | 2 (0.28) | 3 (2.48) | 0 (0.00) | 5 (0.55) | |
| 5 FU | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Adriamycin | 0 (0.00) | 1 (0.83) | 1 (1.49) | 2 (0.22) | |
| Cytosan | 3 (0.42) | 0 (0.00) | 0 (0.00) | 3 (0.33) | |
| Missing | 671 (93.32) | 112 (92.56) | 63 (94.03) | 846 (93.27) | |
| Adjuvant Therapy Admin 5 | | | | | 0.860 ^e |
| Tamoxifen | 1 (0.14) | 1 (0.83) | 0 (0.00) | 2 (0.22) | |
| BMT + harvest | 4 (0.56) | 1 (0.83) | 0 (0.00) | 5 (0.55) | |
| GCSF | 3 (0.42) | 0 (0.00) | 0 (0.00) | 3 (0.33) | |
| 5 FU | 1 (0.14) | 0 (0.00) | 0 (0.00) | 1 (0.11) | |
| Missing | 710 (98.75) | 119 (98.35) | 67 (100.00) | 896 (98.79) | |
| Adjuvant Therapy Admin 6 | | | | | 0.553 ^d |
| BMT + harvest | 2 (0.28) | 1 (0.83) | 0 (0.00) | 3 (0.33) | |
| Missing | 717 (99.72) | 120 (99.17) | 67 (100.00) | 904 (99.67) | |

*CMF= cyclophosphamide, methotrexate, fluorouracil regimen; FAC= fluorouracil, doxorubicin (adriamycin), cyclophosphamide regimen; BMT=bone marrow transplant; GCSF= granulocyte colony-stimulating factor (filgrastim); 5 FU= 5-fluorouracil.

[†]A superscript letter (a,b,c,d,e,f) next to a Chi-square probability identifies the tests which may be invalid; the letter indicates the percentage of cells in the cross-tabulation having expected counts less than 5: a = 21-25%, b = 26-35%, c = 36-45%, d = 46-55%, e = 56-65%, f >65%.

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APPENDIX 1

**LABORATORY COLLECTION
SHEET**

LABORATORY COLLECTION SHEET

1. Patient Name _____
Last First MI

2. Sponsor Social Security Number _____

3. 1. ER/PR Receptor status of tumor. _____

4. _____

5. _____

6. _____

7. 2. Tumor histology (size, nodal status, differentiation, etc.). _____

8. _____

9. _____

10. _____

11. 3. Adjuvant therapy administered. _____

12. _____

13. _____

14. _____

15. 4. Radiation therapy administered. _____

16. _____

17. _____

18. _____

19. 5. Type of surgery. _____

20. ☐ modified radical

21. ☐ breast conservation

22. 6. Additional remarks. _____

23. _____

24. _____

25. _____

26. _____

APPENDIX 2

**ALPHABETIC LIST OF VARIABLES
IN
THE SAS MEDICAL DATA SET**

Appendix 2. Alphabetic List of Variables in the SAS Medical Data Set*

| Variable | # | Type | Len | Pos | Format | Label |
|-----------|----|------|-----|-----|------------|------------------------------|
| 0ADJUV1 | 3 | Num | 8 | 253 | ADJVFMT. | #1 Adjuvant Therpy Admin |
| 1ADJUV2 | 3 | Num | 8 | 261 | ADJVFMT. | #2 Adjuvant Therpy Admin |
| 2ADJUV3 | 3 | Num | 8 | 269 | ADJVFMT. | #3 Adjuvant Therpy Admin |
| ADJUV4 | 33 | Num | 8 | 277 | ADJVFMT. | #4 Adjuvant Therpy Admin |
| ADJUV5 | 34 | Num | 8 | 285 | ADJVFMT. | #5 Adjuvant Therpy Admin |
| ADJUV6 | 35 | Num | 8 | 293 | ADJVFMT. | #6 Adjuvant Therpy Admin |
| ADJUV12 | 11 | Num | 8 | 102 | ADJVFMT. | 2nd Prim #1 Adjuv ther admin |
| ADJUV22 | 12 | Num | 8 | 110 | ADJVFMT. | 2nd Prim #2 Adjuv ther admin |
| ADJUV32 | 13 | Num | 8 | 118 | ADJVFMT. | 2nd Prim #3 Adjuv ther admin |
| ADJUV42 | 14 | Num | 8 | 126 | ADJVFMT. | 2nd Prim #4 Adjuv ther admin |
| ADJUV52 | 15 | Num | 8 | 134 | ADJVFMT. | 2nd Prim #5 Adjuv ther admin |
| ADJUV62 | 16 | Num | 8 | 142 | ADJVFMT. | 2nd Prim #6 Adjuv ther admin |
| BRLOC | 38 | Num | 8 | 317 | BRLOCFMT. | Breast Location |
| BRLOC2 | 19 | Num | 8 | 166 | BRLOCFMT. | Breast Location-#2 |
| CELLTYP2 | 6 | Num | 8 | 62 | CELLFMT. | Tumor Cell Type-#2 |
| CELLTYPE | 25 | Num | 8 | 213 | CELLFMT. | Tumor Cell Type |
| ERA | 23 | Num | 8 | 197 | RCPTRFMT. | Estrogen Receptor Status |
| ERA2 | 4 | Num | 8 | 46 | RCPTRFMT. | Estrogen Receptor Stat-#2 |
| ETHN | 42 | Num | 8 | 348 | | Ethnicity- W H B |
| ETHNN | 43 | Num | 8 | 356 | | Ethnicity- W B H |
| MSTAT | 28 | Num | 8 | 237 | MSTATFMT. | Metastasis Status |
| MSTAT2 | 9 | Num | 8 | 86 | MSTATFMT. | Metastasis Status-#2 |
| NODECAT | 27 | Num | 8 | 229 | NODEFMT. | Node Category |
| NODECAT2 | 8 | Num | 8 | 78 | NODEFMT. | Node Category-#2 |
| OTHRNC2 | 20 | Num | 8 | 174 | | Previous Primary-#2 |
| OTHRNC2 | 40 | Num | 8 | 332 | | Progest. Receptor Status |
| PRA | 24 | Num | 8 | 205 | RCPTRFMT. | Progest. Receptor Stat-#2 |
| PRA2 | 5 | Num | 8 | 54 | RCPTRFMT. | # Breast Primaries |
| PRIMN | 22 | Num | 8 | 189 | | |
| PRIMN2 | 41 | Num | 8 | 340 | | |
| PRIMN2Z | 3 | Num | 7 | 39 | | Secondary Breast Primary |
| PTID | 2 | Char | 36 | 3 | | Patient ID number |
| RADIOTH | 36 | Num | 8 | 301 | RADIOFMT. | Radiation Therapy |
| RADIOTH2 | 17 | Num | 8 | 150 | RADIOFMT. | Radiation Therapy-#2 |
| SID | 1 | Char | 3 | 0 | | Survey ID number |
| STAGEP | 29 | Num | 8 | 245 | PATHFMT. | Pathologic Stage |
| STAGEP2 | 10 | Num | 8 | 94 | PATHFMT. | Pathologic Stage-#2 |
| SURGTYP2 | 18 | Num | 8 | 158 | | Type of Surgery-#2 |
| SURGTYP2 | 37 | Num | 8 | 309 | SURGLFMT. | Type of Surgery |
| TRANSFER | 39 | Char | 7 | 325 | \$AHACDFM. | Transfer AHA Hosp Code |
| TRANSFER2 | 21 | Char | 7 | 182 | | Transfer AHA Hosp Code-#2 |
| TSIZE | 26 | Num | 8 | 221 | TSIZEFMT. | Tumor Size |
| TSIZE2 | 7 | Num | 8 | 70 | TSIZEFMT. | Tumor Size-#2 |

*Output from the SAS System Proc CONTENTS (June 30, 2000).



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8 August 2000

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APPENDIX 3

**SAS FORMATS
WHICH DEFINE NUMERIC VALUES
OF CATEGORICAL VARIABLES**

| FORMAT NAME: <u>ADJVFMT</u> LENGTH: 13 NUMBER OF VALUES: 12 | | |
|---|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| 1 | | 1 Tamoxifen |
| 2 | | 2 CMF |
| 3 | | 3 FAC |
| 4 | | 4 BMT + harvest |
| 5 | | 5 Taxo1 |
| 6 | | 6 GCSF |
| 7 | | 7 5 FU |
| 8 | | 8 Adriamycin |
| 9 | | 9 Cytosan |
| 10 | | 10 Methotrexate |
| 11 | | 11 None |
| 99 | | 99 Unknown |

| FORMAT NAME: <u>BRLOCFMT</u> LENGTH: 9 NUMBER OF VALUES: 4 | | |
|--|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| 1 | | 1 Right |
| 2 | | 2 Left |
| 3 | | 3 Bilateral |
| 9 | | 9 Unknown |

| FORMAT NAME: <u>CELLEMT</u> LENGTH: 14 NUMBER OF VALUES: 15 | | |
|---|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| 1 | | 1 Infilt duct |
| 2 | | 2 Ductal |
| 3 | | 3 Inflammatory |
| 4 | | 4 Paget's diseas |
| 5 | | 5 Lobular |
| 6 | | 6 Adenocarcinoma |
| 7 | | 7 Medullary |
| 8 | | 8 Tubular |
| 9 | | 9 Papillary |
| 10 | | 10 Cystosarcoma |
| 11 | | 11 Mucinous ca |
| 12 | | 12 Cribriform |
| 13 | | 13 Lymphoma |
| 14 | | 14 Spindle cell |
| 99 | | 99 Unknown |

| FORMAT NAME: <u>MSTATFMT</u> LENGTH: 15 NUMBER OF VALUES: 3 | | |
|---|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| | 0 | 0 No distant mets |
| | 1 | 1 Distant mets |
| | 9 | 9 Unknown |

| FORMAT NAME: <u>NODEFMT</u> LENGTH: 37 NUMBER OF VALUES: 5 | | |
|--|-----|---|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| | 0 | 0 No regional lymph node mets |
| | 1 | 1 Mets to movabl.ipsil.axil lymph nodes |
| | 2 | 2 Mets to ipsil.axil nodes fix. to othr |
| | 3 | 3 Mets to ipsil.int. mamm node structur |
| | 9 | 9 Unknown |

| FORMAT NAME: <u>OTHR2CNC</u> LENGTH: 7 NUMBER OF VALUES: 3 | | |
|--|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| | 1 | 1 Yes |
| | 2 | 2 No |
| | 9 | 9 Unknown |

| FORMAT NAME: <u>PATHFMT</u> LENGTH: 9 NUMBER OF VALUES: 6 | | |
|---|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| | 0 | 0 Stage 0 |
| | 1 | 1 Stage I |
| | 2 | 2 Stage II |
| | 3 | 3 Stage III |
| | 4 | 4 Stage IV |
| | 9 | 9 Unknown |

| FORMAT NAME: <u>PRIMNF</u> LENGTH: 17 NUMBER OF VALUES: 2 | | | |
|---|-----|------------------------------------|--|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) | |
| | 1 | 1 Breast primary | |
| | 2 | 2 Secondary primary | |

| FORMAT NAME: <u>RACEN</u> LENGTH: 8 NUMBER OF VALUES: 3 | | | |
|---|-----|------------------------------------|--|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) | |
| | 1 | 1 White | |
| | 2 | 2 Black | |
| | 3 | 3 Hispanic | |

| FORMAT NAME: <u>RADIOFMT</u> LENGTH: 9 NUMBER OF VALUES: 4 | | | |
|--|-----|------------------------------------|--|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) | |
| | 1 | 1 Palliative | |
| | 2 | 2 Curative | |
| | 3 | 3 None | |
| | 9 | 9 Unknown | |

| FORMAT NAME: <u>RCPTREMT</u> LENGTH: 8 NUMBER OF VALUES: 3 | | | |
|--|-----|------------------------------------|--|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) | |
| | 0 | 0 Negative | |
| | 1 | 1 Positive | |
| | 9 | 9 Unknown | |

| FORMAT NAME: <u>SURGLEMT</u> LENGTH: 11 NUMBER OF VALUES: 5 | | |
|---|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| 1 | | 1 Lumpectomy |
| 2 | | 2 Mod radical |
| 3 | | 3 Implants |
| 4 | | 4 None |
| 9 | | 9 Unknown |

| FORMAT NAME: <u>TSIZEFMT</u> LENGTH: 22 NUMBER OF VALUES: 6 | | |
|---|-----|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| 0 | | 0 In situ |
| 1 | | 1 2 cm or less |
| 2 | | 2 > 2 cm but not > 5 cm |
| 3 | | 3 > 5cm |
| 4 | | 4 Any w/ext ch.wall/skin |
| 9 | | 9 Unknown |

| FORMAT NAME: <u>\$AHACDFM</u> LENGTH: 26 NUMBER OF VALUES: 129 | | |
|--|---------|------------------------------------|
| START | END | LABEL (VER. 6.11 14JUN00:14:43:26) |
| 6110385 | 6110385 | Loring AFB USAF Hosp |
| 6120355 | 6120355 | Pease AFB USAF Hosp |
| 6140935 | 6140935 | Cutler Ar Com Hosp |
| 6150090 | 6150090 | Newport Naval Hosp |
| 6160495 | 6160495 | Groton Naval Hosp |
| 6213995 | 6213995 | Plattsburgh AFB USAF Hosp |
| 6214407 | 6214407 | Griffiss AFB USAF Hosp |
| 6215300 | 6215300 | Keller Ar Com Hosp |
| 6220300 | 6220300 | Walson Ar Com Hosp |
| 6220310 | 6220310 | Patterson Ar Com Hosp |
| 6232310 | 6232310 | Philadelphia Naval Hosp |
| 6310015 | 6310015 | Dover AFB USAF Hosp |
| 6320360 | 6320360 | Bethesda Naval Hosp |
| 6320390 | 6320390 | Malcomb Grow Med Cen |
| 6320510 | 6320510 | Kimbrough Ar Com Hosp |
| 6320710 | 6320710 | Patuxent Riv. NAS Nav.Hosp |
| 6330260 | 6330260 | Walter Reed Ar Med Cen |
| 6333333 | 6333333 | Armed Forces Inst of Path. |

FORMAT NAME: \$AHACDFM LENGTH: 26 NUMBER OF VALUES: 129

| START | END | LABEL | (CONT'D) |
|---------|---------|----------------------------|----------|
| 6340090 | 6340090 | Kenner Ar Com Hosp | |
| 6340240 | 6340240 | Dewitt Ar Com Hosp | |
| 6340250 | 6340250 | McDonald Ar Com Hosp | |
| 6340335 | 6340335 | Langley AFB USAF Hosp | |
| 6340750 | 6340750 | Portsmouth NS Naval Hosp | |
| 6360250 | 6360250 | Camp Lejeune Naval Hosp | |
| 6360345 | 6360345 | Cherry Point MCAS Nav.Hosp | |
| 6360530 | 6360530 | Womack Ar Com Hosp | |
| 6360627 | 6360627 | Seymour-Johnson AFB USAF H | |
| 6370055 | 6370055 | Beaufort MCAS Naval Hosp | |
| 6370280 | 6370280 | Moncrief Ar Com Hosp | |
| 6370480 | 6370480 | Myrtle Beach AFB USAF Hosp | |
| 6370490 | 6370490 | Charleston NS Naval Hosp | |
| 6370645 | 6370645 | Shaw AFB USAF Reg Hosp | |
| 6380375 | 6380375 | Eisenhower Ar Med Cen | |
| 6380378 | 6380378 | Winn Ar Com Hosp | |
| 6380580 | 6380580 | Martin Ar Com Hosp | |
| 6380770 | 6380770 | Robins AFB USAF Hosp | |
| 6381195 | 6381195 | Moody AFB USAF Hosp | |
| 6390096 | 6390096 | Patrick AFB USAF Hosp | |
| 6390303 | 6390303 | Homestead AFB USAF Hosp | |
| 6390410 | 6390410 | Jacksonville NAS Nav. Hosp | |
| 6390715 | 6390715 | Orlando NTC Naval Hosp | |
| 6390790 | 6390790 | Tyndall AFB USAF Hosp | |
| 6390840 | 6390840 | Pensacola NAS Naval Hosp | |
| 6391102 | 6391102 | MacDill AFB USAF Reg Hosp | |
| 6391118 | 6391118 | Eglin AFB USAF Reg Hosp | |
| 6411218 | 6411218 | Wright-Patterson Med Cen | |
| 6420385 | 6420385 | Hawley Ar Com Hosp | |
| 6430205 | 6430205 | Scott Med Cen | |
| 6431820 | 6431820 | Great Lakes NTC Naval Hosp | |
| 6432720 | 6432720 | Chanute AFB USAF Hosp | |
| 6441535 | 6441535 | K.I. Sawyer AFB USAF Hosp | |
| 6442015 | 6442015 | Wurtsmith AFB USAF Hosp | |
| 6510175 | 6510175 | Blanchfield Ar Com Hosp | |
| 6510180 | 6510180 | Ireland Ar Com Hosp | |
| 6520840 | 6520840 | Millington NAS Naval Hosp | |
| 6530316 | 6530316 | Lyster Ar Com Hosp | |
| 6530450 | 6530450 | Noble Ar Com Hosp | |
| 6530525 | 6530525 | Fox Ar Com Hosp | |
| 6530735 | 6530735 | Maxwell AFB USAF Hosp | |
| 6540060 | 6540060 | Keesler Med Cen | |
| 6540204 | 6540204 | Columbus AFB USAF Hosp | |
| 6630195 | 6630195 | Leonard Wood Ar Com Hosp | |
| 6631295 | 6631295 | Whiteman AFB USAF Hosp | |

| FORMAT NAME: \$AHACDFM LENGTH: 26 NUMBER OF VALUES: 129 | | | |
|---|---------|----------------------------|----------|
| MIN LENGTH: 1 MAX LENGTH: 40 DEFAULT LENGTH 26 FUZZ: 0 | | | |
| START | END | LABEL | (CONT'D) |
| 6640251 | 6640251 | Grand Forks AFB USAF Hosp | |
| 6640335 | 6640335 | Minot AFB USAF Reg Hosp | |
| 6650505 | 6650505 | Ellsworth AFB USAF Hosp | |
| 6660730 | 6660730 | Ehrling Bergquist Hosp | |
| 6670230 | 6670230 | Munson Ar Com Hosp | |
| 6670250 | 6670250 | Irwin Ar Com Hosp | |
| 6671140 | 6671140 | McConnell AFB USAF Hosp | |
| 6710057 | 6710057 | Blytheville AFB USAF Hosp | |
| 6710313 | 6710313 | Little Rock AFB USAF Hosp | |
| 6720060 | 6720060 | England AFB USAF Hosp | |
| 6720241 | 6720241 | Bayne-Jones Ar Com Hosp | |
| 6720870 | 6720870 | Barksdale AFB USAF Hosp | |
| 6730025 | 6730025 | Altus AFB USAF Hosp | |
| 6730385 | 6730385 | Tinker AFB USAF Hosp | |
| 6730410 | 6730410 | Reynolds Ar Com Hosp | |
| 6730835 | 6730835 | Tinker AFB USAF Hosp | |
| 6740033 | 6740033 | Dyess AFB USAF Hosp | |
| 6740210 | 6740210 | Bergstrom AFB USAF Hosp | |
| 6740780 | 6740780 | Corpus Christi NAS NavHosp | |
| 6741138 | 6741138 | Laughlin AFB USAF Hosp | |
| 6741320 | 6741320 | Wm Beaumont Ar Med Cen | |
| 6741375 | 6741375 | Darnall Ar Com Hosp | |
| 6741380 | 6741380 | Brooke Ar Med Cen | |
| 6741485 | 6741485 | Carswell AFB USAF Reg Hosp | |
| 6742378 | 6742378 | Reese AFB USAF Hosp | |
| 6743125 | 6743125 | Wilford Hall Med Cen | |
| 6743765 | 6743765 | Sheppard AFB USAF Reg Hosp | |
| 6810255 | 6810255 | Malmstrom AFB USAF Hosp | |
| 6820235 | 6820235 | Mountain Home AFB USAF Hos | |
| 6830055 | 6830055 | F.E. Warren AFB USAF Hosp | |
| 6840090 | 6840090 | Evans Ar Com Hosp | |
| 6840310 | 6840310 | Fitzsimons Ar Med Cen | |
| 6840945 | 6840945 | USAF Academy Hosp | |
| 6850005 | 6850005 | Holloman AFB USAF Hosp | |
| 6850075 | 6850075 | Kirtland AFB USAF Hosp | |
| 6850155 | 6850155 | Cannon AFB USAF Hosp | |
| 6860030 | 6860030 | Williams AFB USAF Hosp | |
| 6860095 | 6860095 | Raymond Bliss Ar Com Hosp | |
| 6860300 | 6860300 | Luke AFB USAF Hosp | |
| 6860515 | 6860515 | Davis-Monthan AFB USAF Hos | |
| 6870095 | 6870095 | Hill AFB USAF Hosp | |
| 6880063 | 6880063 | Nellis AFB USAF Hosp | |
| 6910120 | 6910120 | Bremerton Naval Hosp | |
| 6910443 | 6910443 | Oak Harbor Naval Hosp | |

| FORMAT NAME: \$AHACDFM LENGTH: 26 NUMBER OF VALUES: 129 | | | |
|---|---------|---------------------------|----------|
| MIN LENGTH: 1 MAX LENGTH: 40 DEFAULT LENGTH 26 FUZZ: 0 | | | |
| START | END | LABEL | (CONT'D) |
| 6911003 | 6911003 | Fairchild AFB USAF Hosp | |
| 6911030 | 6911030 | Madigan Ar Med Cen | |
| 6930235 | 6930235 | Weed Ar Com Hosp | |
| 6930735 | 6930735 | David Grant Med Cen | |
| 6930760 | 6930760 | Silas B. Hays Ar Com Hosp | |
| 6931186 | 6931186 | Lemoore NAS Naval Hosp | |
| 6931310 | 6931310 | Vandenberg AFB USAF Hosp | |
| 6931371 | 6931371 | Long Beach NS Naval Hosp | |
| 6931885 | 6931885 | Beale AFB USAF Hosp | |
| 6931925 | 6931925 | Castle AFB USAF Hosp | |
| 6932033 | 6932033 | Edwards AFB USAF Hosp | |
| 6932250 | 6932250 | Oakland NS Naval Hosp | |
| 6932270 | 6932270 | Camp Pendleton Naval Hosp | |
| 6932625 | 6932625 | March AFB USAF Reg Hosp | |
| 6932700 | 6932700 | Mather AFB USAF Hosp | |
| 6932840 | 6932840 | San Diego Naval Hosp | |
| 6932970 | 6932970 | Letterman Ar Med Cen | |
| 6933845 | 6933845 | George AFB USAF Hosp | |
| 6940055 | 6940055 | Elmendorf AFB USAF Hosp | |
| 6940066 | 6940066 | Bassett Ar Com Hosp | |
| 6950410 | 6950410 | Tripler Ar Med Cen | |
| 99 | 99 | Civilian, unknown | |